

NPDES # for your Facility:

WAG-130016

Annual Report of Operations for Year 2016

To comply with NPDES General Permit No. WAG130000 for Federal Aquaculture Facilities and Aquaculture Facilities Located in Indian Country within the Boundaries of the State of Washington

		1AN 10
Facility & Owner Information		JAN 18 2017
Facility Name: Colville Tribal Hatchery		Mar Pak Carpan of
Operator Name (Permittee): Colville Confederated Tribes		
Address: 79 Tribal Hatchery Road Bridgeport, WA., 98813		
Email: jill.phillips@colvilletribes.com	Phone: (509) 686-9330	
Owner Name (if different from operator):		
Email:	Phone:	
Best Management Practices (BM	P) Plan	
Has the BMP Plan been reviewed this year?	s 🗆 No	
Does the BMP Plan fulfill the requirements of the Gen	eral Permit?	No
Summarize any changes to the BMP Plan since the las	st annual report. Attach ac	dditional pages if necessary.
	1	N DEC

1C1) 1/19/17 Jr

Operations and Production

Total harvestable weight produced in the past calendar year in pounds (lbs): 57,796

Pounds of food fed to fish during the maximum month: 7,523

List the species grown or held at your facility and the annual production of each in gross harvestable weight. If fish were released rather than harvested, list the weight at time of release.

Species	Fish Produced	Receiving Water(s) to which Fish were Released	Month Released/ Spawned
Rainbow Trout	49,240	Bourgeau, Buffalo, Gold, La Flecr, Little Goose, North Twin, Round, Rufus Woods, South Twin, and Summit lakes	2-10/16
Lahontan Cutthroat Trout	108,210	Duley, Omak, and Soap lakes	3-4/16
Brook Trout	22,875	McGinnis and Owhi lakes	10/16

Fill in the table below with production numbers from the past year. List the **maximum** amount of fish on-site and the maximum amount of food fed **per month**.

Month	Total Fish (lbs)	Fish Feed (lbs)	Month	Total Fish (lbs)	Fish Feed (lbs)
January	30,934	5,855	July	20,430	4,951
February	30,937	4,503	August	30,061	6,628
March	29,948	7,026	September	38,674	7,523
April	26,105	5,268	October	19,267	2,685
May	18,813	4,076	November	17,263	3,464
June	15,855	4,084	December	22,904	5,389

Additional Comments:	N	

Solid Waste Disposal

Describe the solid waste disposed of during the calendar year (including fish mortalities).

Type of Solid Disposed	Date Disposed	Location Disposed
Egg cull/mortality	4/27/16	Okanogan landfill
Fish mortalities-froze and disposed	4/27/16, 8/17/16, and 12/14/16	Okanogan landfill
Additional Comments:		———————————————————————————————————————

Fish Mortalities

Include a description and the dates of mass mortalities in the past year (more than 5% per week). Attach additional pages, if necessary. Include total mortalities from all causes.

Date	Cause of Deaths	Steps Taken to Correct Problem	Pounds of Fish
	NONE to Report that exceeded 5% per week		
Additional Com	iments:		

Noncompliance Summary

Include a description and the dates of no the steps taken to correct the problems.	ncompliance events (including spills), the reasons for the incidents, and Attach additional pages, if necessary.

Inspections & Repairs for Production & Wastewater Treatment Systems

Date Inspected	Date Repaired	Description of System Inspected and/or Repaired
1/12/16		Building and grounds inspection
7/12/16	No repairs necessary	Inventory equipment, inspect rearing vessels, inspect settling ponds and discharge areas

Aquaculture Drugs and Chemicals

Please indicate whether you used each drug/chemical during the past calendar year. Describe the use of each drug/chemical in more detail on the following pages.

Used in the past year?	Drug or Chemical
□ Yes ■ No	Azithromycin
□ Yes ■ No	Chloramine-T: See additional reporting requirements on page 7
□ Yes ■ No	Chlorine
□ Yes ■ No	Draxxin
□ Yes ■ No	Erythromycin - injectable
□ Yes ■ No	Erythromycin - medicated feed
☐ Yes ☐ No	Florfenicol (Aquaflor)
■ Yes □ No	Formalin - 37% formaldehyde: See additional reporting requirements on page 7
■ Yes □ No	Herbicide - describe:
□ Yes ■ No	Hormone - describe:
□ Yes □ No	Hydrogen Peroxide: See additional reporting requirements on page 7
■ Yes □ No	lodine: See additional reporting requirements on page 7
□ Yes ■ No	Oxytetracycline
□ Yes ■ No	Potassium Permanganate: See additional reporting requirements on page 7
□ Yes ■ No	Romet
□ Yes □ No	SLICE (emamectin benzoate)
■ Yes	Sodium Chloride - salt
□ Yes ■ No	Vibrio vaccine
□ Yes □ No	Other:
□ Yes □ No	Other:

Aquaculture Drugs and Chemicals (cont'd)

Describe all drug and/or chemical treatments that occurred during the year. Fill out the information below for each drug or chemical, plus page 7 for water-borne treatments. Attach additional pages as necessary.

Brand Name: Parasite-S		Generic Name: Formalin	
Reason for use: Control fur	ngus on eggs during in	cubation	
■ Preventative/Prophylactic □ As-needed	Total quantity of formulated product per treatment (specify units) \$79 milliliters per treatment	Total quantity of formulated properties (specify units): 11.1 gallo	
Date(s) of treatment: 1/1/16-12/31/16			Total number of treatments in past year: 111
Maximum daily volume of treated water: 17,280 gallons	Treatment concentration (specify units): 1:6,000 ppm	Duration and frequency of treat 15 min., daily until e	
Method of application:	☐ Static Bath ☐ Flow-through	☐ Medicated Feed☐ Other (describe):	
Location in facility chemical was used (check all that apply):	☐ Raceways ☐ Incubation building	☐ Ponds ☐ Off-line settling basin	☐ Other (describe):
Where did water treated with this chemical go? (check all that apply):	■ Discharged w/o treatment □ Settling basin	☐ Septic System ☐ Publicly owned treatment works	☐ Other (describe):
	on about how this chemical was us and details on p		evention practices during use:
Brand Name: Tricaine-S		Generic Name: MS 222	
	hetic used during fish ı		ions
	hetic used during fish I Total quantity of formulated product per treatment: 20 grams		
Reason for use: Fish anest	Total quantity of formulated product per treatment:	narking and vaccinat Total quantity of formulated p	
Reason for use: Fish anest Preventative/Prophylactic As-needed Date(s) of treatment:	Total quantity of formulated product per treatment:	narking and vaccinat Total quantity of formulated p	Total number of treatments in past year: 17 tment(s): or vaccination events,
Reason for use: Fish anest Preventative/Prophylactic As-needed Date(s) of treatment: 2/16-10/16 Maximum daily volume of treated water:	Total quantity of formulated product per treatment: 20 grams Treatment concentration (specify units):	marking and vaccinat Total quantity of formulated p (specify units): Duration and frequency of treat as needed during marking	Total number of treatments in past year: 17 tment(s): or vaccination events,
Reason for use: Fish anest Preventative/Prophylactic As-needed Date(s) of treatment: 2/16-10/16 Maximum daily volume of treated water: 1700 gallons	Total quantity of formulated product per treatment: 20 grams Treatment concentration (specify units): 0.20 grams/ gallon	Total quantity of formulated p (specify units): Duration and frequency of treat as needed during marking however, no more than 3 in Medicated Feed	Total number of treatments in past year: 17 tment(s): or vaccination events, times dailiy.
Reason for use: Fish anest Preventative/Prophylactic As-needed Date(s) of treatment: 2/16-10/16 Maximum daily volume of treated water: 1700 gallons Method of application: Location in facility chemical was used	Total quantity of formulated product per treatment: 20 grams Treatment concentration (specify units): 0.20 grams/ gallon Static Bath Flow-through	Duration and frequency of tread as needed during marking however, no more than 3 medicated Feed Other (describe):	Total number of treatments in past year: 17 tment(s): or vaccination events, times dailiy.

Aquaculture Drugs and Chemicals (cont'd)

Describe all drug and/or chemical treatments that occurred during the year. Fill out the information below for each drug or chemical, plus page 7 for water-borne treatments. Attach additional pages as necessary.

Brand Name: Ovadine	MINIMA MARKET	Generic Name: PVP lodir	ne
Reason for use: Disinfection	n of Eggs		
■ Preventative/Prophylactic ■ As-needed	Total quantity of formulated product per treatment (specify units) 81.3 ml for 1:100 dilution	Total quantity of formulated p (specify units): 1.4 gallon	
Date(s) of treatment: 3/15/16-10/30/16			Total number of treatments in past year: 65
Maximum daily volume of treated water: 17,280 gallons	Treatment concentration (specify units): 1:100 ppm	Duration and frequency of treat 60 minutes after fertilization when receiving transferred o	(water-harden) and 10 minutes
Method of application:	■ Static Bath □ Flow-through	☐ Medicated Feed☐ Other (describe):	
Location in facility chemical was used (check all that apply):	☐ Raceways ☐ Incubation building	☐ Ponds ☐ Off-line settling basin	☐ Other (describe):
Where did water treated with this chemical go? (check all that apply):	■ Discharged w/o treatment □ Settling basin	☐ Septic System ☐ Publicly owned treatment works	☐ Other (describe):
Provide any additional information	on about how this chemical was u	sed and/or special pollution pre	evention practices during use:
Brand Name: Pendulum		Generic Name:	
Brand Name: Pendulum Reason for use: Weed kille	r	Generic Name:	
	Total quantity of formulated product per treatment: 0.5 gallon	Total quantity of formulated p (specify units): 2 gall	, -
Reason for use: Weed kille	Total quantity of formulated product per treatment:	Total quantity of formulated p	, -
Reason for use: Weed kille: Preventative/Prophylactic As-needed Date(s) of treatment:	Total quantity of formulated product per treatment:	Total quantity of formulated p	Total number of treatments in past year: 4 tment(s):
Reason for use: Weed kille: Preventative/Prophylactic As-needed Date(s) of treatment: 5-8/16 Maximum daily volume of treated water:	Total quantity of formulated product per treatment: 0.5 gallon	Total quantity of formulated p (specify units): 2 gall	Total number of treatments in past year: 4 tment(s): I weeds
Reason for use: Weed killer Preventative/Prophylactic As-needed Date(s) of treatment: 5-8/16 Maximum daily volume of treated water: 0	Total quantity of formulated product per treatment: 0.5 gallon Treatment concentration (specify units):	Total quantity of formulated p (specify units): Duration and frequency of trea as needed to contro Medicated Feed spray a Other (describe): ground Ponds Off-line settling basin fac	Total number of treatments in past year: 4 tment(s): I weeds
Reason for use: Weed killer Preventative/Prophylactic As-needed Date(s) of treatment: 5-8/16 Maximum daily volume of treated water: 0 Method of application: Location in facility chemical was used	Total quantity of formulated product per treatment: 0.5 gallon Treatment concentration (specify units): Static Bath Flow-through	Total quantity of formulated p (specify units): Duration and frequency of trea as needed to contro Medicated Feed spray a Other (describe): ground Ponds Off-line settling basin fac yes	Total number of treatments in past year: 4 tment(s): Weeds areas by hand to control weeds Cother (describe): illity grounds away from rearing

Aquaculture Drugs and Chemicals (cont'd)

Describe all drug and/or chemical treatments that occurred during the year. Fill out the information below for each drug or chemical, plus page 7 for water-borne treatments. Attach additional pages as necessary.

		Generic Name:	
Reason for use: Disinfectar	nt		
☐ Preventative/Prophylactic ☐ As-needed	Total quantity of formulated product per treatment (specify units) 1.3 oz/ 1 gallon water	Total quantity of formulated p (specify units): 18.2 oz.	roduct used in past year
Date(s) of treatment: 1/16-12/16			Total number of treatments in past year: 14
Maximum daily volume of treated water: NONE	Treatment concentration (specify units): 1:400 ppm	Duration and frequency of treat 10 minutes of contact time i against pathogens (bacteria	s sufficient to be effective
Method of application:	☐ Static Bath ☐ Flow-through	☐ Medicated Feed used in ☐ Other (describe): and to	n footbaths for bio-security disinfect equipment
Location in facility chemical was used (check all that apply):	☐ Raceways ■ Incubation building	☐ Ponds ☐ Off-line settling basin	☐ Other (describe):
Where did water treated with this chemical go? (check all that apply):	☐ Discharged w/o treatment☐ Settling basin	☐ Septic System ☐ Publicly owned treatment eworks	■ Other (describe): evaporation
Mainly used to disinfect e	on about how this chemical was u equipment (hand sprayed) potbaths at entrances to ir	to limit bacteria or viral e	
Brand Name: Pendulum		Generic Name:	
Reason for use: Weed kille	r	<u> </u>	
			3
☐ Preventative/Prophylactic ☐ As-needed	Total quantity of formulated product per treatment: 0.25 gallon	Total quantity of formulated possible (specify units): 255	roduct used in past year
_	Total quantity of formulated product per treatment:		roduct used in past year Total number of treatments in past year: 10
As-needed Date(s) of treatment:	Total quantity of formulated product per treatment:		Total number of treatments in past year: 10 ment(s):
Date(s) of treatment: 5/16-9/16 Maximum daily volume of treated water:	Total quantity of formulated product per treatment: 0.25 gallon	Duration and frequency of treal as needed to contro	Total number of treatments in past year: 10 ment(s): I weeds reas by hand to control
Date(s) of treatment: 5/16-9/16 Maximum daily volume of treated water: 0	Total quantity of formulated product per treatment: 0.25 gallon Treatment concentration (specify units):	Duration and frequency of treat as needed to contro Medicated Feed spray a Other (describe): ground Ponds Off-line settling basin faci	Total number of treatments in past year: 10 ment(s): I weeds reas by hand to control
Date(s) of treatment: 5/16-9/16 Maximum daily volume of treated water: 0 Method of application: Location in facility chemical was used	Total quantity of formulated product per treatment: 0.25 gallon Treatment concentration (specify units): Static Bath Flow-through Raceways	Duration and frequency of treat as needed to contro Medicated Feed spray a Other (describe): ground Ponds Off-line settling basin fact yes Septic System	Total number of treatments in past year: 10 ment(s): I weeds reas by hand to control weeds I other (describe): lity grounds away from rearing

Aquaculture Drugs and Chemicals (cont'd) Additional Reporting Requirements for Water-Borne Treatments

- If a water-borne treatment was used during the calendar year, Permittees must include detailed records/calculations as an attachment to this Annual Report in order to demonstrate how the maximum effluent concentrations of solution and active ingredient were calculated for each chemical.
- EPA recognizes that water-borne treatments may vary in the volume of the vessels treated, concentration, quantity of product, etc. Permittees must provide the information listed in the following tables for a reasonable worst case (i.e., maximum effluent concentration) scenario, not for each individual treatment.
- Permittees must submit this information and calculate the maximum effluent concentration for each water-borne chemical used during the past calendar year.
- See also Appendix D for the Chemical Log Sheet.

Static Bath Treatments		
Tank Volume	Liters	
Desired Static Bath Treatment Concentration	µg/L	
Volume of Product Needed	Liters Product	
Maximum Effluent Concentration of: 1) Solution and 2) Active Ingredient	Solution: Active Ingredient: Specify Units	
Minimum Volume of Total (treated + untreated) Water Discharged from the Facility per day	Specify Units	
Maximum % of Facility Discharge Treated	% of Total Discharge	
Flow-Through Treatments		
Tank Volume	65.1 Liters	
Calculated Flow Rate	15.14 Liters/Minute	
Duration of Treatment	15 Minutes	
Desired Flow-Through Treatment Concentration of Product	6,000,000 _{µg/L}	
Amount of Product to Add Initially	0.0252 Liters Product	
Amount of Product to Add During Treatment	25.2 mL/Minute	
Total Volume of Product Needed	0.378 Liters Product	
Maximum Effluent Concentration of: 1) Solution and 2) Active Ingredient	Solution: 0.00001% Active Ingredient: 37% Formaldehyde (37 grams/100mL) Specify Units	
Minimum Volume of Total (treated + untreated) Water Discharged from the Facility per day	9,841,000 Liters Specify Units	
Maximum % of Facility Discharge Treated	0 % of Total Discharge	

Changes to the Facility or Operations

Describe any changes to the facility or operations since the last annual report.		

Signature and Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly evaluate and gather the information submitted. Based on my inquiry of the person or persons, who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jill Phillips	Hatchery Manager
Printed name of person signing	Title
Suphelips	01/9/17
Applicant Signature	Date Signed

Submittal Information

Send the complete, signed information, along with any attachments, to the following address:

U.S. EPA Region 10, OWW-191 Washington Hatchery Annual Report

1200 Sixth Avenue, Suite 900

Seattle, WA 98101-3140

Flow through tree ment of Harasite - Formaling on eggs to control fungus during incubation.

Incubator transmeasure: 14.5" x 18.5" x 2.0" to calculate Volume = 0.28884 frs or 2.15 gallon There one 8-trays in a series = 17.2gallons 3.785 liters = Igallon 3.785 x 17.2= 65.1 Liters
Tank Volume Flow rate per series of incubators is 4gpm or 3.785x4= 15.14 Liters permix Desired concentration is 1:6,000 ppm 1 µg=0.00.1 Ing/L=1ppm 6,000 mg = 6,000,000 µg Total Volume of Pavasite-S needed for 15 minute or 378 ml frontment to eggs per series = 25.2 ml/minute or 378 ml per trentment. 378 mls × 1,000 mls/L = 0,378 Liters per series. Total Minimum of water (treated w/Parasite-S; untreated) 2,600,000 million gollons/day x 3,785 = 9,841,000 Liters/day 0,378 (Vofproduct) x 3 series = 1,134 Liters/9,841,000 Liters/day mux. concertation = 0.0001% concentration of Solution in Effluent Formal dehyde is 37% or 37 grams of Formal dehyde in 100 ml Solution